SOR No - 10/15-16

Original/Duplicate/Triplicate

P.W.C.T.S. 1st and final Bill — **CONTRACT CERTIFICATE** — Reference paras 158 & 170

NO

Division Yelahanka — Sub division Yelahanka New Town — Date

Bills received No — Date YNK-DWR No. 17 Date 30.04.15 — Sub-divisional / Divisional / Head of account — Cash book vr No — Date

Sheduled Docket No

Name of work(as per sanctioned estimate) :-

NAME OF WORK :Construction of toilet bilding right side of Sandeep Unnikrishnan road Attur layout in Attur ward no 03

Work Code:003-15-000018

Name of contractor and full address :- A Kumar Reddy

Reference to agreement No :- 91 — Estimated cost : 3.00 — Work order No:91, dt:18/02/2015

Certified that the measurments were taken by me on 30/04/2015 and recorded on pages 212973 to 212991 of measurment book No 2123 and the work is satisfactorily executed by the contractor.

A. Kumar Reddy
Signature of contractor

Asst. Engineer

Certified that the measurments were taken by me on 2/5/15 and recomed correct The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

Sub-divisional officer

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within		
2) Deduct amount to be held in reserve being-----percent Rs----------%		
3) Balance---		
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S.D No----------Amount	BM	291901
b) Cost of payments/stores or other materials supplied now made recovery of		
Amount paid on this bill by cheque/cash		
Total		
5). Balance being unpaid value of work done hold in reserve		
6) Deduct cash of advance made on divisional/sub divisional cash book		
7) Net amount due to or from contractor		
UN ADJUSTED ITEMS		
8) Advance to contractor for materials to site(as detailed within)		
9) Value of government materials supplied.		
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures A. Kumar Reddy

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum

(in final settlement of all demand)

Witness

1)

2)

Receipt Stamp

Dated signature of contractor

paid by me cheque No dated

Cash Rs.....

Date Initials of officer making payment

Audited & Admitted for Rs. 2,91,901/-

Rs. 2,55,580/- by Cheque

and Rs. 36,321/- by Cash

Date

Executive Engineer

Sl. No	Items grouped under Sub-heads and sub-works of the estimate	Unit	Previous Measurement		Presont Measurement		
			Qty	Total	Qty	Cost	Rate
1	KSRB 2-1.1 : Earth work in surface excavation in **Ordinary soil** for levelling and lowering the ground manually (other than foundation of buildings, culverts, road, drains and trenches of pipes lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m excavated surface levelled and neatly	cum			6.00	144.18	864.96
2	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m. In depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications. Specification.	cum			23.04	259.70	5983.49
4	KSRB 9-1.3 : Providing and laying in position plain cement concrete of mix **1:4:8** using **40mm** and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth	cum			2.70	4757.28	12844.56
5	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones, at two m.	cum			8.57	3810.36	30940.79
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement** with **cement mortar 1:6**, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m.	cum			2.65	4459.36	11814.65
7	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	cum			23.04	116.60	2686.46

9	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	sqm			5.04	91.16	459.45
10	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding.	sqm			49.39	923.26	45599.81
11	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of mix 1:1.5:3 with **20mm (M20)** and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for ground floor level for roof slabs, staircase, lintel, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, corbels, bed stone	cum			2.92	5952.96	17382.64
12	KSRB 4.2.11 : Providing and laying in position reinforced cement concrete of mix 1:1.5:3 with 12 mm and down size graded granite metal, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto ground floor lever.	sqm			1.62	507.74	822.54
13	KSRB 4.9.2 : Providing T.M.T Steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required , tying with binding wire and anchoring to the adjoining memebers wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3	cum			3.30	7759.20	25605.36

14	KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry and concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of	sqm			12.65	249.10	3151.12
15	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	sqm			8.40	183.38	1540.39
16	KSRB 15.3.12 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	sqm			36.68	196.10	7228.26
17	KSRB 15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.	sqm			45.26	21.21	959.95
18	KSRB 15.3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications	sqm			66.52	185.50	12339.46
19	KSRB 14.14.3: Providing white glazed tiles of size 6mm thick for flooring, treads of steps and landing, laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing using white cement including cost	sqm			12.96	793.94	10289.46
20	KSRB 14.14-5: providing Ceramic tiles of size 15 x 15Cms approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.	sqm			7.92	888.28	7035.18

21	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc.,and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification	sqm			12.19	561.80	6848.34
22	KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification NO KBS	sqm			1.62	265.00	429.30
23	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications. Specification	sqm			15.12	358.28	5417.19
24	Providing and fixing cold rolled perepainted steel windows of IS standards, made out of 0.6mm thick deep drawing quality galvanished on both sides 120gms/sq.mtr. Primer coat upto 5microns with thermosetting epoxy resin and finish painted with a polyester based paint 20microns thick. The size of profiles in approximately 46x52mm for external formes, 46x46mm section for shutters, 46x70mm section for centre mullion/transom and 18x31mm section is for fixing glasses. The section should be cut to length joint mitred and assembling by means of corner brackets made out of cold rolled cold annealed strips of 1.2mm thick duly galvanised and fixed with nickle plated self taping screws. The shutters are provided with approved quality of fixtures like handles made out of zamac alloy die cast and powder coated, receiver made out of glass filled nylone and hinges made out of CRCA powder coated. 4mm tinted glass should be fixed with EPDM gaskets. Guard bars fabricated out of 10mm square bright bars shall be fixed horizonatally at 125mm C/C by revetting to the external frame. The abovve frames are fixed to the concrete /	W			2.16	4505.00	9730.80

25	SOLID PANEL PVC DOOR SHUTTER Providing and fixing 30 mm thick factorily made rigid foam panelled door shutters made from M.S Tuvbe of 19 gauge thickness size 19x19 mm tro styles and 15x15mm for top and hottom rails, covered with heat moulded PVC channel of 5 mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rails & bottom rail panelling of 5 mm thick 20mm wide PVC sheet fittled in te M.S Frame sealed to the styless & rails with 5 x 30mm PVC sheet beading on ewither sides & joined together with solvent cement adhesive etc., complete as per manufactures specification & direction of Engineer - in charge fixed to frames with 3 nos. of 75mm Aluminium hinges **Pag**	sqm			7.29	550.14	4010.52
	Providing & fixing factory made PVC Door frame of size 50x47 mm with a wall thickness of 5mm, made out of extruded 7mm rigid PVC foam sheet metered cut at corners & jointed 2No.s of 150mm long brackets of 15x15 mm M.S. Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufactures specification & direction of Engineer-in charge						0.00
26	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foregin matter including	sqm			45.26	65.72	2974.49
27	KSRB 15-16.1: providing and finishing external walls in tow coats with water proof cement paint of approve brand and shade to give an even shade after thourghly brooming the surface to remove all dirt and losse powdered material, free from mortar dops and other foreign matter cost of materials, labours, complete as per	sqm			66.52	57.24	3807.60

28	KSRB 11-2 : Providing and fixing white vitreous china clay, water closets Orissa pattern of size 580 x 440mm with integral type footrests, 100m S or P trap, 10 litre low level, P. V. C. flushing cistern (all are approved make) with fittings, C.I. / M.S. brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specificatio	sqm			4.00	4523.02	18092.08
29	KSRB 5.2-1 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.1	sqm			5.79	2544.00	14729.76
30	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete 18 cms thick and above	sqm			3.24	691.12	2239.23
31	KSRB 8.6-5: Providing and fixing in wall surface 2.5 kg/sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes bends and offsets fixed with iron clamps, walls plugs, screws, including cost of materials, labour, complete as per specifications.	Rmtr			6.00	418.70	2512.20
32	KSRB 13-1.3 : Providing and **fixing to wall, ceiling and floor galvanised/mild steel tube 25mm dia nominal bore** with fittings (medium grade weight 1.65 Kg/mtr) B class including cost of all materials, labour charges, HOM of equipments and testing specification No	Rmtr			6.00	316.94	1901.64

33	KSRB 13-4.1 : Making connection of G.I distribution branch with G.I main of 25 to 40mm nominal bore including cutting and threading the pipes providing and fixing Tee, nuts, labour for all items of works testing and HOM of equipments complete as per specifications.	Rmtr			6.00	625.40	3752.40
34	KSRB 13-6.3-5 : Providing and fixing in position **brass gate valve** with CI wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Rmtr			2.00	344.50	689.00
35	Providing and fixing **CI Nahani trap** of approved make fixing in CC 1:2:4 and plastering with CM 1:3 wherever necessary (rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot)	Rmtr			4.00	302.10	1208.40
38	KSRB 13-11.1 : Providing and placing on terrace, **polyethylene water storage tanks** with manhole and suitable locking arrangements making of suitable diameter for inlet, outlet and over flow pipes including cost of all materials labour, transport charges, HOM of equipments and testing complete as per specifications (For 1000 litre capacity)	Rmtr			1.00	8851.00	8851.00
37	Supplying and wiring adoptiong loop system in existing PVC conduit /casing caping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose legnth in a wood/PVC round block.	Rmtr					0.00
	b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch				2.00	175.00	350.00
	c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch				2.00	368.00	736.00
							0.00

38	Supplying 6A flush /projected type socket and a 6 amps flush/projected type SP switch either surface mounting in a gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. (P.6/1.12a) Electrical SR - 2014-15	each			2.00	91.00	182.00
39	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complete. (P.4/1.6) Electrical SR - 2014-15	each					0.00
	a) 4"x4"x3"				2.00	44.00	88.00
	b) 12"x12"x3"				2.00	98.00	196.00
	c) 10"x7"x3"				2.00	68.00	136.00
40	Supplying 4mm thick plastic sheet with necessary niches for fixing switches regulated etc.,, and fixing on existing wooden or metal box using N.F. screws.., (P.10/1.22)	sqm			60.00	0.22	13.20
41	Extra for groove cutting, plastering and colour washing for embedding PVC conduit/GI pipe and plastering finishing the wall upto wall surface complete upto 50mm conduit in brick in wall (P.3/1.7a) Electrical SR - 2013-14	rmtr			10.00	14.00	140.00
42	Supplying, fixing, wiring, earth electrode for grounding conduits, LC, cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mts long buried in a pit..... The pit should be filled with equal proportion of salt and charcoal 150 mm around the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as per ISI specification 7.3.3 of IS 732 using 12 mm dia bolts, nuts, washers and checknuts etc	each			1.00	3000.00	3000.00
43	Supplying and fixing of porcelain fuse chanel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc complete (P.32/1.3a) Electrical SR - 2014-15.	each			4.00	54.00	216.00

44	Supplying 20mm dia 2mm thick heavy gauge PVC conduit pipe with suitable size bends, metal junction boxes, adhesive paste etc and running before concreting the slabs. The conduit should be tied to the reinforcement roads by using binding wire and unused ways of junction boxes and pipe ends should be covered using PVC and enclosures and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.	each			10.00	32.00	320.00
45	Supplying and fixing PBBC brass/Bakelite straight or slant batten holder and wiring, within 60W/230 Volts lamps.	no			2.00	60.00	120.00
46	Supply patty type fluorescent tube light fitting of 4 feet 40 watts fluorescent tube of 230 volts made of M.S. sheet and stove enameled with heavy duty polyfill aluminum choke, starter, locking type brass contact holders mounted on foldable type sheet base fully wired for use on 230 volts AC supply including 1 Nos 4'-36/40 watts fluorecent tube A Group	no			2.00	400.00	800.00
47	Wiring for lighting / power circuits using one of PVC insulated 1100v/grade multies and copper conductor single core cable in open or concealed system of wiring A Group materials 1.50 Sqmm materials	rmtr			60.00	15.00	900.00
48	Supplying and running of GI / Copper conductor for grounding & (along with other wires of CTS or conduit system of wiring) using if necessary suitable size clamps bolts nuts and washers etc.	rmtr			6.00	15.00	90.00
49	Supplying and fixing miniature circuit breakers/Isolators on existing MCB distribution boards using necessary fixing	no			2.00	370.00	740.00
50	Supplying capacitor type ceiling fan complete with down rod blades, shakle, regulator canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved (Almanord, Unique ISI, Anchor, Crompton, Khaitan, Bajaj, Usha, Johnson make)	no			2.00	1200.00	2400.00

51	Fixing a ceiling fan of all capacities and all types to the existing S hook with fan regulator to the existing board together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23/0.0076	no			4.00	105.00	420.00
52	Supplying and fixing 32mm dia class A GI pipe bracket upto 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete.	no			2.00	600.00	1200.00
53	Digging of trench of 0.6m deep x 0.50mtr wide refilling the trench to the required ground level and consolidating etc., complete, In Hard Soil	rmtr			6.00	40.00	240.00
					TOTAL		298265.00

Asst Engineer
Ward no:03

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP, Bangalore-64.